CLAIMS

What is claimed is:

1   1.   A method for presenting photographs for display using a DVD player,

2   the method comprising:

3   reading a still-picture file for a selected photograph from the DVD disc;

4   transcoding data from the still-picture file into a sequence of frames; and

5   decoding and presenting the sequence of frames.

1   2.   The method of claim 1, wherein the transcoding comprises:

2   extracting DCT data from the still-picture file; and

3   encoding and outputting a key picture frame using the DCT data.

1   3.   The method of claim 2 further comprising:

2   selecting a photograph presentation mode of the DVD player; and

3   navigating amongst still-picture files stored in a directory structure on a DVD

4   disc to select the photograph for presentation.

1   4.   The method of claim 3, wherein the transcoding further comprises:

2   outputting a sequence header prior to an key picture frame;

3   outputting dummy frames after the key picture frame while the selected

4   photograph is to be presented; and

5   outputting a sequence end code to stop presentation of the selected

6   photograph.

1   5.   A DVD player configured to present digital photographs for display, the

2   DVD player comprising:

3   a transcoder for converting still-picture files to sequences of frames; and

4   a navigator for selecting the still-picture files and controlling the transcoder to

5 direct presentation of the sequences.

1   6.   The DVD player of claim 5, wherein the transcoder:

2   extracts DCT data from the selected still-picture files; and

3   encodes key picture frames using the DCT data.

1   7.   The DVD player of claim 6, wherein the transcoder further:

2   encodes a sequence header, including height and width information, to be

3 inserted prior to each key picture frame;

4   encodes dummy frames to be inserted after the key picture frame while the

5 selected still-picture is to be presented; and

6   encodes a sequence end code to be inserted after the dummy frames so as to

7 stop presentation of the selected still-picture.

8   8.   The DVD player of claim 5 further comprising:

9   a free running timer for use by the navigator in timing the selection of the still-

10 picture files so as to present the selected still-picture slides in a slide show format.

1   9.   The DVD player of claim 5 further comprising:

2   a remote control for sending commands to the navigator to control the

3 selection and presentation of the still-picture files,

4   wherein buttons for controlling presentation of a DVD movie are re-used to

5 control the presentation of the still-picture files.

1   10.   The DVD player of claim 9, wherein the remote control comprises:

2   a first button that is re-used to function as a display picture control;

3   a second button that is re-used to function as a previous picture control; and

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4   a third button that is re-used to function as a next picture control.

1   11.   The DVD player of claim 10, wherein the remote control further

2   comprises:

3   a set of buttons that are re-used to navigate through a directory structure of

4   still-picture files,

5   wherein the set of buttons includes a button that functions as a one-level up in

6   the directory structure and a button that functions as a one-level down in the directory

7   structure.

1   12.   The DVD player of claim 5 further comprising:

2   a frame buffer for buffering the sequences to be output as at least one video

3   signal from the DVD player,

4   wherein the transcoder outputs the sequences to a decoder, and wherein the

5   decoder decodes the sequences prior to the sequences being sent to the frame

6   buffer.

1   13.   The DVD player of claim 5, wherein the DVD player also comprises a

2   game machine.

1   14.   The DVD player of claim 13, wherein the navigator comprises software

2   in form of a game product.

1   15.   A method for presenting digital photographs for display using a DVD

2   player, the method comprising:

3   encoding onto a DVD disc MPEG2 sequences that include the digital

4   photographs as I-picture frames;

5   inserting the DVD disc into the DVD player; and

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6   navigating amongst the MPEG2 sequences and displaying selected

7 photographs using the DVD player.

1   16.   The method of claim 15, wherein the encoding comprises:

2   extracting DCT data from the digital photographs; and

3   encoding the I-picture frames using the DCT data.

1   17.   The method of claim 16, wherein the encoding further comprises:

2   encoding a sequence header including height and width information;

3   encoding dummy frames after each I-picture frame; and

4   encoding a sequence end code.

1   18.   A DVD player configured to present digital photographs for display, the

2 DVD player comprising:

3   a navigator for selecting the digital photographs encoded as MPEG2

4 sequences and stored in an accessible directory structure on a DVD disc;

5   an MPEG2 decoder for receiving and decoding the MPEG2 sequences; and

6   a frame buffer for buffering the decoded MPEG2 sequences to be output as at

7 least one video signal from the DVD player.

1   19.   The DVD player of claim 18 further comprising:

2   a free running timer for use by the navigator in timing the selection of the

3 MPEG2 sequences so as to present the selected digital photographs in a slide show

4 format.

1   20.   The DVD player of claim 18 further comprising:

2   a remote control for sending commands to the navigator to control the

3 selection and presentation of the digital photographs,

4   wherein buttons for controlling presentation of a DVD movie are re-used to

5   control the presentation of the digital photographs.

1   21.   The DVD player of claim 20, wherein the remote control comprises:

2   a first button that is re-used to function as a display picture control;

3   a second button that is re-used to function as a previous picture control; and

4   a third button that is re-used to function as a next picture control.

1   22.   The DVD player of claim 21, wherein the first button comprises a play

2   button, the second button comprises a rewind button, and the third button comprises

3   a fast forward button.

1   23.   A DVD player configured to present digital photographs for display, the

2   DVD player comprising:

3   means for reading a still-picture file for a selected photograph from the DVD

4   disc;

5   means for transcoding data from the still-picture file into a video sequence;

6   and

7   means for decoding and presenting the video sequence.

1   24.   The DVD player of claim 23, wherein the DVD player comprises a game

2   console, and wherein the means for navigating comprises software product for the

3   game console.

1   25.   The DVD player of claim 23, wherein the DVD player comprises a

2   stand-alone DVD player.